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MTS DDA Monitor

Information Sheet for Crimson v2.0

Compatible Devices

- MTS Tank Monitoring System

Verified Device

- MTS Level-Plus Tank Monitoring System

Device Options

It is optional for a device address to be entered here. A valid entry, 192 –253, will be used as the first entry in the address list. Otherwise, the first entry will be the default value of 192.

Accessible Data

Prefix	**Description**
ADD	Unit Address Array Assignment
PROD	Product (Output Level 1)
INTF	Interface (Output Level 2)
TAVG	Average Temperature
TIDT	Individual DT Temperatures (5 / ADD)
CADD	Change Unit Address ([Add] -> Unit)
SGEN	Unrecognized Command String
COMM	Communications Active

General Information

The driver continually monitors for received data, storing the values. Up to 8 device addresses may be entered for monitoring.
Level and Temperature values are converted from Ascii to Real numbers, obviating the need to allow for differing commands yielding different numbers of decimal places. Strings comprising multiple values are sorted appropriately.
The driver will default to address 192 in ADD1 if the address there is invalid.

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Command Specifics

ADD –Eight array locations are available for assignment of device addresses. The driver will not permit a duplicate address to be entered. The array location of the address specifies which array location of the data values is used for an address.

PROD, INTF, and TAVG data are found in the array position corresponding directly to the position of the address in ADD. That is, a value found in PROD3 will have come from the device whose address is found in ADD3.

TIDT have 5 values assigned for each address. TIDT1 –TIDT5 will contain DT values reported by the device at ADD1. TIDT6-TIDT10 have the values for ADD2, TIDT11-TIDT15 have the values for ADD3, etc.

CADD will change the address of a unit, whose address is found in the specified ADD, to the new value entered in the data field. If the device address is unknown, use SGEN first, described below, to assign an ADD to the existing value. CADD will return to 0 once the command is sent.

SGEN is used to examine data that is not provided for in the above selections. SGEN must be programmed as a "String", "Encoding" set to Packed High-to-Low, and "Element" set to 0. "Length" is the largest number of characters to display. The first three data bytes will be displayed in hex and between <> as ascii hex characters. E.g. if the device address was 198(C6), the command was 79(4F), and an STX(02) was received, the beginning of the displayed string is <C64F02>. The ETX(03) and checksum characters at the end of the string will not be displayed. SGEN will be loaded whenever the driver cannot assign data to one of the existing selections. New strings will overwrite previous one's. Writing anything to SGEN clears the string.

COMM has 5 locations, one value for each of PROD, INTF, TAVG, TIDT, and SGEN, respectively. Each of the locations increment (0 –255) upon the receipt of a command that one of those values. These are used to indicate that a value is being updated.

Cable Information

G3 RS485	MTS Tank Monitoring System
7	Rx/Tx+
8	Rx/Tx-